

REMARKS

Applicant thanks the Examiner for his time and attention regarding this matter in the August 25, 2008 phone conversation with Examiner and Applicant's undersigned attorney.

Applicant amended independent claim 1 to clarify that the messaging protocol is one of a business application to manage and control a business enterprise. Support for this clarification is provided throughout the originally filed application, including, for example, in page 5, paragraph 24, to page 6, paragraph 28. Applicant similarly amended independent claims 5, 9, 10 and 11. Additionally, applicant added new claim 13, depending from claim 1, reciting the feature that the messaging protocol of the business application to manage and control the business enterprise is different from standard network messaging protocols. Applicant further added new claim 14, depending from claim 1, reciting the feature that the structured application message header includes a structured application message header specified using XML syntax, and new claim 15, also depending from claim 1, reciting the feature that the structured application message header is specified in a designated header section of a Simple Object Access Protocol (SOAP) message. Support for these features is provided, for example, in relation to FIGS. 2-5 and the passages in the Detailed Description corresponding thereto. After entering the above amendments, claims 1-15 will be pending, with claims 1, 5, 9, 10, and 11 being independent.

The examiner maintained his rejection of claim 9 under 35 U.S.C. § 102(b) for allegedly being anticipated by U.S. Publication No. US2002/0184357 to Traversat *et al.* The examiner also maintained his rejections of independent claim 1 under 35 U.S.C. § 103(a) as being unpatentable over Traversat in view of U.S. Publication No. US2002/0138618 to Szabo, and of claims 2-8, 10-12 under 35 U.S.C. § 103(a) as being unpatentable over Traversat in view of Szabo, and further in view of U.S. Publication No. US2003/0014733 to Ringseth *et al.* THESE REJECTIONS ARE RESPECTFULLY TRAVERSED.

Applicant's independent claim 1 recites "defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise, the structured message header comprising one or more components defined by the protocol with each of the one or more components relating to a corresponding set of attributes of the message". Thus, messages include structured application message headers defined by a protocol(s) of a business application to manage and control a business enterprise,

i.e., a protocol developed and uniquely associated with a particular enterprise-based business application. Such an application is different from other messaging protocols, including, for example, standard network communications protocols.

Applicant contends that none of the references relied upon by the examiner discloses or suggests at least the features “defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise”.

Specifically, Traversat describes peer-to-peer network computing platforms (Traversat, page 1, paragraph 7) and explains that messages may be datagrams that may include an envelope with a header a message digest and addressing information:

[0147] In one embodiment, the peer-to-peer platform may use asynchronous messages as a basis for providing Internet-scalable peer-to-peer communication. The information transmitted using pipes may be packaged as messages. Messages define an envelope to transfer any kinds of data. A message may contain an arbitrary number of named subsections which can hold any form of data. In one embodiment, the messages may be in a markup language. In one embodiment, the markup language is XML. Each peer's messaging layer may deliver an ordered sequence of bytes from the peer to another peer. The messaging layer may send information as a sequence of bytes in one atomic message unit. In one embodiment, messages may be sent between peer endpoints. In one embodiment, an endpoint may be defined as a logical destination (e.g. embodied as a URN) on any networking transport capable of sending and receiving Datagram-style messages. Endpoints are typically mapped into physical addresses by the messaging layer at runtime.

[0148] In one embodiment, a message may be a Datagram that may include an envelope and a stack of protocol headers with bodies and an optional trailer. The envelope may include, but is not limited to, a header, a message digest, (optionally) the source endpoint, and the destination endpoint. In one embodiment, each protocol header may include, but is not limited to, a tag naming the protocol in use and a body length. Each protocol body may be a variable length amount of bytes that is protocol tag dependent. Each protocol body may include, but is not limited to, one or more credentials used to identify the sender to the receiver. Such a message format preferably supports multiple transport standards. An optional trailer may include traces and accounting information. (Traversat, page 12, paragraphs 147-148)

But nowhere does Traversat's describe that peer-to-peer messages are defined by a messaging protocol of a business application used to manage and control a business enterprise. Indeed, Traversat does not even refer to the use of business applications, let alone business applications that include or are associated with messaging protocols to define application messages having corresponding structured message headers. Accordingly, Traversat fails to disclose or suggest at least the feature of “defining an application message having a structured application message header, the structured message header being defined in accordance with a

messaging protocol of a business application to manage and control a business enterprise,” as required by applicant’s independent claim 1.

The examiner also referred to page 20, paragraph 252, of Traversat as further supporting rejection of the claims. The above reference paragraph describes that peer-to-peer messages may be formatted for HTTP binding:

0252] The following describes the transport binding of the peer-to-peer platform protocols over HTTP including the wire message format for the HTTP binding of the peer-to-peer platform protocols. An HTTP request format message may include a header and a body using an HTML format. For example:

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<HTML>
  <Code> Header </Code>
  <Msg> Body </Msg>
</HTML>
(Traversat, page 20, paragraph 252)
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The above passage, however, also fails to indicate that any message (or the header thereof) is generated or defined in accordance with a messaging protocol associated with a business application.

Szabo describes a communication network system in which connection information corresponding to a client can be reused to accelerate connection between a client and a server (Szabo, page 1, paragraph 2). The implementation of Szabo system includes communication of messages between a Data Flow Segment (DFS) and at least one Control Segment (CS) of the system’s controller (Szabo, paragraphs 47 and 73). Szabo describes that varying wire protocols (i.e., protocols to get data from a first point to a second point) may be used, and that each such wire protocol defines a communication protocol for message exchanges between the DFS and a CS (Szabo, page 5, paragraph 69). With respect to the communicated messages, Szabo explains:

[0073] The flow of messages from CS to DFS is asynchronous and independent of the flow of messages from the DFS to CS. Reply messages are initiated in response to query messages. The request and replies from the DFS and CS need not be interleaved. The querying segment should not be idle while waiting for a reply. The querying segment should not waste time trying to associate received replies with queries. Instead, reply messages should be self-contained so that the receiving segment will process the reply without needing to know what the original query was.

[0074] Each message contains a serial number (or other indicator) that is generated by the originator of the flow. The originator of the flow is the first party to query or notify the other party regarding the flow. The serial number remains constant for all messages pertaining to the flow during the flow's lifetime. Since the DFS is typically the first party to detect an inbound flow (from the external network to the internal network), the DFS is generally the originator of the flow. In this case, the DFS sends a message (QUERY) to the CS to notify the CS about the new flow. In some instances

(e.g. CS-assisted flow), the CS originates the flow by sending a message (NEWFLOW) to the DFS.

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[0076] FIG. 5 shows a table (table II) listing the data elements that are expected to be sent in a given message. Each message type may consist of a predefined subset of these data elements. The length of the message is derived from the UDP header.

[0077] FIG. 6 shows a table (table III) of message fields for the message types defined in FIG. 4. After having read the present disclosure, it is understood and appreciated that other message types and message fields may also be utilized within the scope of this invention. The message layout is optimized for efficient processing by the CS and according to the needs of the particular DFS. Every message has a message header that includes msg_type, error_code, and message serial number fields. Example message layouts are shown in FIG. 9. (Emphasis added, Szabo, page 5, paragraphs 73-77)

Thus, while the Szabo's communicated messages include headers, presumably defined and structured according to one or more wiring protocols, at no point does Szabo describe that any such wire protocol used is a messaging protocol of a business application used to control and manage a business enterprise. Accordingly, Szabo too fails to disclose or suggest at least the features of "defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise," as required by applicant's independent claim 1.

With respect to Szabo's paragraph 120, relied upon by the examiner in rejecting independent claim 1, the paragraph states:

[0120] Although the processing is shown as sequential in FIG. 17, the controller continually receives packets in an asynchronous manner. For a segmented controller, the DFS continuously receives messages from the CS in an asynchronous manner. Since the controller is continually receiving packets and messages, the controller may not enter an idle state and continues processing messages and packets from a local memory buffer. (Szabo, page 8, paragraph 120)

The above-indicated paragraph merely indicates that the processing depicted in the flowchart of FIG. 17 corresponds to asynchronous receipt of packets. Contrary to the examiner's contentions, this paragraph does not "disclose processing mode for a message" (as recited in claim 1). This paragraph certainly does not disclose or suggest "defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise".

Ringseth describes a systems and methods for providing compile-time declarative modeling for SOAP-based data transmission, and the minimization of coding in connection with SOAP-based Web services by a developer (Ringseth, page 1, paragraph 3). With respect to SOAP-based communications, Ringseth explains:

[0051] A SOAP message is an XML document that comprises a SOAP envelope, an optional SOAP header and a SOAP body. The basic format of a SOAP message is illustrated in exemplary pseudocode 300 of FIG. 3A. The SOAP envelope is the top element of the XML document representing the message. The SOAP header is a generic mechanism for adding features to a SOAP message in a decentralized manner without prior agreement between the communicating parties. SOAP defines a few properties that can be used to indicate who should deal with a feature and whether it is optional or mandatory. The SOAP body is a container for mandatory information intended for the ultimate recipient of the message. For the envelope, the element name is "Envelope" and is present in the SOAP message. The element may contain namespace declarations as well as additional properties. If present, such additional properties are namespace-qualified. Similarly, the element may contain additional sub elements, but if present these elements are namespace-qualified and follow the SOAP body element. (Emphasis added, Ringseth, page 5, paragraph 51)

Thus, SOAP messages used by Ringseth's system each includes a SOAP envelope, an optional SOAP header and a SOAP body. However, at no point does Ringseth describe that these SOAP messages, including respective SOAP headers, are defined by a messaging protocol of a business application to control and manage a business enterprise. Accordingly, Ringseth also fails to disclose or suggest at least the features of "defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise," as required by applicant's independent claim 1.

Because none of the references relied upon by the examiner to reject independent claim 1 discloses or suggests, alone or in combination, at least the features "defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise," applicant's independent claim 1 and the claims depending from it are patentable over the cited art.

Applicant's independent claims 5, 9, 10 and 11 recite "defining an application message having a structured application message header, the structured message header being defined in accordance with a messaging protocol of a business application to manage and control a business enterprise, the structured application message header comprising one or more components defined by the protocol with each of the one or more components relating to a corresponding set of attributes of the message," or similar language. For reasons similar to those

provided with respect to independent claim 1, at least these features are not disclosed by the cited art. Applicant's independent claims 5, 9, 10 and 11, and the respective claims depending from them, are therefore patentable over the cited art.

Applicant further contends that the newly added claims are also patentable over the cited art. For example, newly added claim 15 recites "wherein the structured application message header is specified in a designated header section of a Simple Object Access Protocol (SOAP) message." Thus, the message's header (i.e., the header defined by a messaging protocol of the business application) is specified within the SOAP message section typically reserved for header information (e.g., SOAP header), thus creating, in effect, a header within header configuration.

In contrast, none of the cited references discloses or suggests at least the feature of claim 15. Specifically, Szabo does not at all describes use of SOAP messages, and therefore also does not disclose or suggest at least the feature of "wherein the structured application message header is specified in a designated header section of a Simple Object Access Protocol (SOAP) message." Traversat briefly refers, at page 39, paragraph 439, to SOAP messages as an example of so-called "codat" (computer content), but does not otherwise provide any detail regarding SOAP messages, and certainly does not disclose or suggest that "wherein the structured application message header is specified in a designated header section of a Simple Object Access Protocol (SOAP) message," as required by claim 15.

As for Ringseth, as mentioned above, while Ringseth describes systems and methods for providing compile-time declarative modeling for SOAP-based data transmission, Ringseth does not describe that headers of structured application messages are included within a section of a SOAP message typically reserved for header information. Accordingly, Ringseth also fails to disclose or suggest at least the feature of "wherein the structured application message header is specified in a designated header section of a Simple Object Access Protocol (SOAP) message," as required by claim 15.

CONCLUSION

It is believed that all of the pending claims have been addressed in this paper. However, failure to address a specific rejection, issue or comment, does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above are not intended to be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically

stated in this paper, and the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

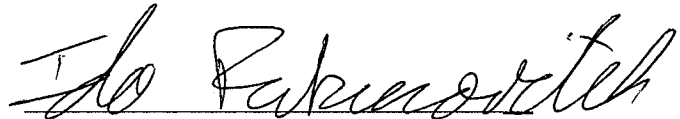
On the basis of the foregoing amendments, applicant respectfully submits that the pending claims are in condition for allowance. If there are any questions regarding these amendments and remarks, the examiner is encouraged to contact the undersigned at the telephone number provided below.

Along with this Response to Final Office Action, Applicant hereby submit a Request for Continued Examination along with a Petition for an Extension of Time.

The Commissioner is hereby authorized to charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 34874-096.

Respectfully submitted,

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